	day, 11/21/2005 7:40:54 PM a Lacelle	Process Sheet	Solit	1 2001.03
customer ob Number estimate Number c.O. Number This Issue Preht Rev. First Issue Previous Run Written By Checked & Appro	: N/A : 11/21/2005 S.O. No. : N/A : NC : N/A Type : MACHINED P. : N/A : SEE COMMENT. : SEE COMMENT. : Est Rev:B 05.09.23 Procedure	Material Due Date BELOW	: FLOAT WEB : D3282041 : D3282 REV C : N/A : C : N/A : 12/20/2005 Qty:	10 Um: Each
Additional Produc	ct	g *390 *		
Job Number:			7	8
Seq. #:	Machine Or Operation:	Description :		
1.0	D2792130	EXTRUSION		2.4
11	Identify as D3282-1	10.0000 Each(s) Batch 2 40 30 Pm 0 5 LANDING GEAR RESOURCE 1	-11-28	
2.0	LANDING GEAR 1	LANDING GEAR RESOURCE		400
Com	ment: LANDING GEAR RESOURCE 1 Cut to length as per Dwg D3282.	Pm 05-11-2		
3.0	HAAS1	HAAS CNC VERTICAL MACHINI	NG #1	
Com	ment: HAAS CNC VERTICAL MACHINING # 1-Machine as per Folio FA579 & Dwg			
A HAR	2-Deburr	E	0 05/12/03	gr ((
4.0	QC2	INSPECT PARTS AS THEY COM		2 11
Com	ment: INSPECT PARTS AS THEY COME O	FF MACHINE	op office)
			*	

W/O:		1	WORK ORDER CHANGES								
DATE	STEP	F	PROCEDU	RE CHANGE	w.	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector	
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i.			ETTENTO I	Action from	- Sec				1		
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art No:	 PAR #:	Fault Category:	NCR: Yes No DQA:	Date: Odollas
			QA: N/C Closed:	Date:

NCR:		, Wo	WORK ORDER NON-CONFORMANCE (NCR)									
		Description of NC		Corrective Action Section B		Verification	Approval	Annetical				
DATE	STEP	Section A	Initial Action Description Chief Eng Chief Eng		Sign & Date	Section C	Approval Chief Eng	Approval QC Inspector				
05.12.12	3	0.050" Dimension in section A=A of dwg D3z0z was cut to 0.014", on one side only, from and fluct holes through to aft taper Transition is equal to tool red.	OS. 12.12 per asi 042	Ber is OK See attathed time.		los an	P" asi 0472	05.12.12				
×1214	3	especially the ends,	Boar	Ac- clebar and ensure no burs or shorp edges Are left & re alodine As per as i ws 4.1	Ep	05.12.15	Bun	J 212.14				
			Total Inner d									



Dart Aerospace Ltd

W/O:		WORK ORDER CHANGES									
DATE	STEP	PROCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector				

QA: N/C Closed:

Date:

NCR:		- V	VORK ORDE	R NON-CONFORMANO	CE (NCR)			2
		Description of NC		Corrective Action Section B		Verification	A	
DATE	STEP	Section A	Initial Action Description Chief Eng		Sign & Date	Section C	Approval Chief Eng	Approva QC Inspecto
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NOTE: Date & initial all entries

Monday, 11/21/2005 7:40:54 PM Date: **Process Sheet** Linda Lacelle User: Drawing Name: FLOAT WEB Customer: CU-DAR001 Dart Helicopters Services Part Number: D3282041 Job Number: 24862 Job Number: Description: Seq. #: Machine Or Operation: SECOND CHECK 5.0 Comment: SECOND CHECK HAND FINISHING RESOURCE #1 HAND FINISHING Comment: HAND FINISHING RESOURCE #1 Chemical Conversion Coat as per QSI 005 4.1 7.0 Comment: INSPECT POWDER COAT/CHEMICAL CONVERSION D32831 20.0000 Each(s) 2.0000 Each(s)/Unit Total: Comment: Qty.: Pick: Description **Qty Part Number** 2 D3283-1 Doubler Rivet, Universal Head MS20470AD47 9.0 Comment: Qty.: 57.0000 Each(s)/Unit Total: 570.0000 Each(s) Pick: Description Batch **Qty Part Number** Rivet 3 57 MS20470AD4-7 LANDING GEAR RESOURCE LANDING GEAR 1 Comment: LANDING GEAR RESOURCE 1 1-Install doublers as per Dwg D3282. Apply LPS-3 between doublers and web BE 06-01-12 INSPECT WORK TO CURRENT STEP QC5 11.0 A06.01.16 Comment: INSPECT WORK TO CURRENT STEP

Dart Aerospace Ltd

W/O:			WORK OF	RDER CHA	ANGES		t-langer		7	
DATE	STEP		PROCEDURE CHANGE			Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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Part No	:	PAR #:	Fault Category:		NC	R: Yes	s No DO	QA:	_ Date: _	-
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NCR:			WORK ORDER NO	N-CONFO	RMANCE	E (NC	(R)			

NCR:		1	WORK ORDI	ER NON-CONFORMANC	E (NCR)			5
	Est descri	Description of NC	Corrective Action Section B				A	Annexal
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Verification Section C	Approval Chief Eng	Approva QC Inspecto
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NOTE: Date & initial all entries

Monday, 11/21/2005 7:40:54 PM Date: **Process Sheet** Linda Lacelle User: Drawing Name: FLOAT WEB Customer: CU-DAR001 Dart Helicopters Services Part Number: D3282041 Job Number: 24862 Job Number: Description: Machine Or Operation: Seq. #: PACKAGING RESOURCE #1 PACKAGING 1 12.0 Comment: PACKAGING RESOURCE #1 Identify and Stock Location: DC 13.0 Comment: DOCUMENT CONTROL Inspection Level 21 Job Completion

Dart	Aeros	pace	Ltd
		200	

W/O:			7					
DATE	STEP	PRO	OCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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Part No	:	PAR #:	Fault Category:	NCR: Ye	s No DC	QA:	Date:	
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NCR:			WORK ORDE	ER NON-CONFORMAN	CE (NCR)			
		Description of NC		Corrective Action Section	В	Verification	Ammanual	Approval QC Inspector
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Approval Chief Eng	
				#TX E37				
						** ** ** ** ** ** ** ** ** ** ** ** **	2000	

NOTE: Date & initial all entries

Job Costing Report

000 00001119	1100010
Dart Aerospace Ltd. Hawkesbury	Nov 17, 2005 03:30 pm
Work Order No : 0024862-1	
Project Name : D3282-041	Department Code:
Project For : WK550	Burden Flags : NNNNNNN
Work Order Type : Main	WO Status : Open
Main WO Number :	Invoice State : Not Invoiced
House Part Number: D3282-041	Invoice Date :
Description : Float Web	Invoice Number :
Manufactured : Yes Amount Req'd : 8 (8)	Invoice Amount : 0.00
Amount Done : 0	Order Entry No :
Start Date : 11-17-05	OE Value : 0.00
Est Finish Date : 12-20-05	
Act Finish Date :	Est Margin : 0.000%
Drawings Reqd : No	Actual Margin : 0.000%

Drawings Reqd : No Actual Margin : 0.000%
Ok for Approval :
Approval Rec'd : \$0 Posted to Finished Goods

		Estimated	Actual	Var. %	Posted	To Post
Material Cost	:	0.00	0.00	0.00	0.00	0.00
Engineering Hours	:	0.00	0.00	0.00		
Engineering Cost		0.00	0.00	0.00	0.00	0.00
Production Hours	:	0.00	0.00	0.00		
Production Cost	:	0.00	0.00	0.00	0.00	0.00
Packaging Hours	:	0.00	0.00	0.00		
Packaging Cost	:	0.00	0.00	0.00	0.00	0.00
OverHead Hours	:	0.00	0.00	0.00		
OverHead Cost	:	0.00	0.00	0.00	0.00	0.00
CNC Hours	:	0.00	0.00	0.00		
CNC	:	0.00	0.00	0.00	0.00	0.00
Misc. Hours	:	0.00	0.00	0.00		
Misc.	:	0.00	0.00	0.00	0.00	0.00
Burden	•	0.00	0.00	0.00		
Total Cost	:	0.00	0.00	0.00		
Margin	:	0.000	0.000			
Selling Cost	:	0.00	0.00			

		Estimated	Actual
Labour Hrs/Amount Done	:	0.00	0.00
Profits/(Loss)	:	0.00	0.00

DART AEROSPACE LTD	Work Order: 24862	
Description: Float WEB	Part Number: D3282 -o	1/
Inspection Dwg: D3282 Rev: C	Page 1 of	1

FIRST ARTICLE INSPECTION CHECKLIST

		First Artic		Proto	rype	
Drawing Dimension	Tolerance	Actual Dimension	Accept	Reject	Method of Inspection	Comments
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	En l	Audited by:	3C	Pr	ototype Approv	/al:
Date:	5/11/30	Deter				ite:

Measured by:	en	Audited by:	3C	Prototype Approval:	
Date:	05/11/20	Date:	v5.11.30	Date:	

Rev	Date	Change	Revised by	Approved
A		New Issue	KJ/RF	

DART AEROSPACE LTD	Work Order:	24862	
Description: FLOAT WEB	Part Number:	D3282-041	
Inspection Dwg: 23282 Rev: /		Page 1 of 1	

FIRST ARTICLE INSPECTION CHECKLIST

		First Artic	cle	Proto	type		
Drawing Dimension	Tolerance	Actual Dimension	Accept	Reject	Method of Inspection	Со	mments
0.128	+ 0.005	0.178	-				
(57 Phos)							
5.000	4. ± .010	4,998				Detail	L C
3.750	± 0.010	3747	-				
1.250	+ 000	1.248					
\$ 0.500		0.501					
				-j.			
2.38	+ 0.030	2.386					
0-805	t 0.030	0036					
						-	
							r.
New York Control of the State o							
Measured by:	Er	Audited by:	36	Pr	ototype Appi	roval:	
	05/11/36	Garage Co.	5.n-30			Date:	
Rev Date	Change				Re	evised by	Approved
Δ	Nour Igens					VOC	Total Total

KJ/RF

New Issue

Chris Provencal

From:

David Shepherd [davids@dartaero.com]

Sent:

December 7, 2005 4:56 PM

To:

Chris Provencal

Subject: Re: web_transition1.jpg;web_transition2.jpg

Chris,

If the transition from 0.014" to 0.050" is the radius of the cutter, then I think this is an acceptable deviation.

David

---- Original Message ---From: Chris Provencal
To: davids@dartaero.com

Sent: Monday, December 05, 2005 12:33 PM Subject: web_transition1.jpg;web_transition2.jpg

David,

If you recall, a D3282 web was cut too deep. Basically the 0.050" relief from section A-A of drawing D3282 Rev. C was instead cut too 0.014" on one side only. My calculations show the inertia value (1.369) is still higher than the D2600-7 (1.318).

The reduced section is from the aft holes of the mid bag (section A-A), through the transition from section A-A to B-B.

The potential problem I see is that the transition is very pronouced (see attached pictures). This transition is at the point where the section jumps from 0.014" thickness to the 0.050", near the aft end of the mid bag holes.

Sincerely,

Chris Provencal

DART Aerospace Ltd.

Email...chrisp@dartaero.com

Phone...613-632-3336

Fax.....613-632-4443



